	TOP SECRET RUFF	25
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REFERENCE TO: Mission 11	ll, NEW PROBABLE OVER-THE-HORIZON DETECTION SYSTEM NIKOLAYEV, USSR	
1. SIGNIFICANCE:	THIS IS THE FIRST PHOTOGRAPHIC IDENTIFICATION	
	OF A PROBABLE OVER-THE-HORIZON (OHD) SYSTEM	
	IN THE USSR.	
2. <u>REMARKS</u> :	OHD SYSTEMS UTILIZE THE HIGH FREQUENCY RADIO	
•	SPECTRUM FOR THE DETECTION OF TARGETS OVER	
	DISTANCES OF SEVERAL THOUSANDS OF MILES. THIS	
	PROBABLE OHD SYSTEM, NEAR NIKOLAYEV, USSR,	
	CONSISTS OF TWO LARGE ANTENNA ARRAYS POSITIONED	
	APPROXIMATELY 14 NAUTICAL MILES APART IN A	
	PROBABLE BISTATIC ARRANGEMENT.	÷
3 <u>LOCATION</u> :	ONE ANTENNA ARRAY IS LOCATED 12.5 NM SE OF THE	
	CENTER OF NIKOLAYEV, AT THE NIKOLAYEV RADCOM A	
	AM BC XMTR STA	2
	THE OTHER IS 9.3 NM NE OF NIKOLAYEV.	
4. <u>COLLATERAL</u> :		25
chould be restricted to the particular	ed for briefing purposes only and should not be used for detailed analytical work. Their use ar briefing boards (s) they were prepared for and must be considered valid only for the redate of issue. For information concerning these notes contact Chief, Imagery Exploitation	2

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. FIRST IDENTIFICATION:	
NEGATION DATE:	
. SUBSEQUENT COVERAGE:	THE LAST KH PHOTOGRAPHY PRIOR TO KH 1111-1 WAS
	ONLY TRENCHES FOR THE ANTENNA FOOTINGS AND
	FOOTINGS FOR THE CONTROL BUILDINGS WERE PRESENT.
DIMENSIONS/ SPECIFICATIONS:	PROBABLE RECEIVING ARRAY
	LENGTH OF ARRAY 323M (1060 FT)
	NUMBER OF TOWERS 32
	HEIGHT OF TOWERS 98M (320 FT)
	PROBABLE TRANSMITTING ARRAY
	LENGTH OF ARRAY 198M (650 FT)
	NUMBER OF TOWERS 15
	HEIGHT OF TOWERS 64M (210 FT)

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	NOTE: ALL DIMENSIONS GIVEN ARE APPROXIMATE.	
	AZIMUTH + 3°	
9.	MISSION READOUT: A PROBABLE OVER-THE-HORIZON DETECTION SYSTEM	
	IS UNDER CONSTRUCTION NEAR NIKOLAYEV, USSR. THE SYSTEM CONSISTS OF TWO	
	LARGE ANTENNA ARRAYS, APPROXIMATELY 14 NM APART IN AN APPARENT BISTATIC	
	ARRANGEMENT.	
	ONE ANTENNA ARRAY (47-03-10N 032-12-00E), ADJACENT TO THE NIKOLAYEV	
	RDO COM RCVR STA IS THE PROBABLE RECEIVING ARRAY IN THE	2
	SYSTEM, BASED ON ITS LARGER SIZE AND ITS PROXIMITY TO THIS RECEIVING	
	FACILITY. THIS ARRAY IS APPROXIMATELY 323 METERS (1,060 FEET) LONG AND	
	98 METERS (320 FEET) HIGH AND CONTAINS 32 TOWERS WHICH ARE LINEARLY	
	POSITIONED. A LARGE CIRCULAR AREA CONSISTING OF EXCAVATIONS IS IMMEDIATELY	
	NORTH OF THE ANTENNA BUT ITS FUNCTION IS NOT KNOWN.	
	THE SECOND ANTENNA ARRAY IS LOCATED AT THE NIKOLAYEV RADCOM A AM BC	
	XMTR STA 46-49-04N 032-12-50E) AND IS PROBABLY THE	2
	TRANSMITTER ARRAY. THIS ARRAY IS APPROXIMATELY 198 METERS (650 FEET) LONG	
	AND 64 METERS (210 FEET) HIGH AND CONTAINS 15 TOWERS WHICH ARE LINEARLY	
	POSITIONED.	
	BOTH ANTENNA ARRAY ORIENTATIONS ARE IDENTICAL, BUT IT CANNOT BE	
	BOTH ANTENNA ARRAY ORIENTATIONS ARE IDENTICAL, BUT IT CANNOT BE These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing boards (s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue. For information concerning these notes contact Chief, Imagery Exploitation Group NPIC.	

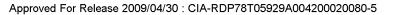
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	DETERMINED WHETHER THE ARRAYS WILL OPERATE	25X1 25X1

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NEW PROBABLE OVER-THE-HORIZON DETECTION SYSTEM NIKOLAYEV, USSR



MISSION 1111-1, 23-29 JULY 1970

